

AMP2111A SOLID STATE HIGH POWER AMPLIFIER

FEATURES

Designed for EMI/RFI, lab, CW/Pulse and all communication applications.

Small form factor, rack mounted system

Class A/AB Linear design

High Power Advanced technology devices

Instantaneous ultra-wide bandwidth

Built-in protection circuits, with extensive monitoring

Local LCD & remote flexible interfaces

High efficiency, with unprecedented reliability and ruggedness



ELECTRICAL SPECIFICATIONS: 50Ω, 25°C

Parameter	Specification	Notes
Operating Frequency Range	6.0 - 18.0 GHz	
Power Output @ Psat	60 Watt Min	CW or Pulse
Power Output @ P1dB	35 Watt Typ	
Power Gain	48 dB Min	0dBm or less for rated Pout
Power Gain Flatness	4 dB p-p Max	Constant input power
Gain Adjustment Range	20 dB Min	Local or Remote
Input / Output Return Loss (50-ohms)	-10 dB Max	
2-Tone Intermodulation (IMD)	-30 dBc Typ	38dBm/Tone, Δ = 1MHz
Harmonics	<-20 dBc Typ	At rated output
Spurious	-60 dBc Max	Non-harmonic
Operating Voltage	100 - 240 VAC Nom	47-63 Hz
Power Consumption	1000 Watt Max	At rated output
Input Power Protection	+10 dBm Max ¹	
Load VSWR Protection	4 : 1: Max ² (100% protection)	Foldback @ preset limit
Sample Port (optional)	-40 dB	N-Female

1 Units with optional digital monitor and control, for basic units <10 Sec without damage

2 Units with optional digital monitor and control, for basic units <1 minute at rated Pout

ENVIRONMENTAL CHARACTERISTICS

Parameter	Specification	Notes
Operating Ambient Temperature	0 to +50 °C	
Storage Temperature	-20 to +85 °C	
Relative Humidity	up to 95 %	Non-condensing
Altitude	3000 meters	
Shock & Vibration	Normal transport ³	

3 MIL Spec available for quotation

MECHANICAL SPECIFICATIONS

Parameter	Specification	Notes
Dimensions W x H x D	430 x 133 x 560 mm	3U, excluding handles
Weight	20 Kg. Max	
RF Connectors In ⁴ / Out / Sample (optional)	Type-N Female	Front or rear panel
AC Power / Control Connector	IEC 60320-C14 / 9-Pin D-Sub	Or equivalent/rear panel
Cooling	Built in Fan Cooling	Variable speed
OPTIONAL: Digital Monitor & Control (DMC) FWD, REV, VSWR, GAIN, ALC, V & I, TEMP, Optional Safety Interlock (INT)	Ethernet RJ-45 TCP/IP, RS422/485, USB Optional GPIB Interface Open=STBY/Short=RFON	IEEE rear panel BNC-F rear panel

4 Optional 3.5mm Female RF input connector, see options page 2.

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AVAILABLE SPECIAL OPTIONS

Parameter	Specification	Notes
Option FRS: Forward RF Sample	-40dB, Type N-Female	Front or rear panel
Option RRS: Reflected RF Sample	-40dB, Type N-Female	Front or rear panel
Option 3.5I: 3.5 mm Female RF Input conn.	⁴ Replace N-Female to 3.5 mm Female conn.	3.5 mm Panel RF Input
Option GPIB: GPIB remote control	GPIB IEEE-488 Remote capability	
Included CPM: Calibrated Power Monitoring (With purchase of Option DMC)	Offset correction entry for +/- 0.2dB accuracy	13-points standard ⁴

⁴ Consult the factory if additional points are required.

OUTLINE DRAWING SHOWN WITH LCD DIGITAL CONTROLLER

